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Machine-made and computer aided construction and manufacturing of metal-free dental restorations are established for decades in dentistry. Enormous improvements of the design-software as well as the milling units and most important of the products for manufacturing the restorations lead to longlasting and high esthetic restorations with impressive properties.

Nano-ceramic hybrid materials specially designed for CAD-CAM use are equivalent products for many standard restorations as inlays, onlay, veneers, crowns and in future also 3-unit bridges which were reserved for ceramic material so far. Although restorations made of these new materials are less complicated while manufacturing and individualization, need no final gloss burn and do not require any acid for conditioning before luting.

Modifications can be done easily either before final luting or afterwards. All you need for any modification exists already in your clinic or your dental lab.

This present compendium contains beside basic information about our Grandio blocs / disc a step-by-step instruction for polishing, individualization and the adhesive luting of restorations made of Grandio blocs / disc. There are no limits for your own creativity e.g. for the individualization of an incisor crown and the results are visible instantly – without a burning step. Less production steps and a manageable number of (rotating) instruments save time and lead to brilliant restorations which are economically for your business and please you and your patients

Good Luck!
2. Step-by-step instruction for the individualization of Grandio blocs

2.1. Overview Accessories

Finalize

- Abrasive wheel
  - z. B. EVE R22

- Carbide metal drill
  - z. B. NTi, 859-012M-RA oder 862-012M-RA

- Carbide metal burr
  - z. B. NTi H079QCE-45

- Carbide metal burr
  - z. B. NTi HF073QCE-014 (weiß) und HF073FE-14 (rot)

- Polishing wheel
  - z. B. EVE R22

- Goat hair brush
  - z. B. NTI 1260

- Slicer
  - z. B. NTi Kahla REF 400.514.220

- Cotton wobble
  - z. B. NTI 1269

- Polish
  - z. B. Renfert Polish REF 5100000

- Dental drill
  - z. B. NTI, 859-012M-RA oder 862-012M-RA

- Dental probe

- Toothbrush

- Endo burr
  - 008 or 010

- Cotton wobble
  - z. B. NTI 1269

- Composite filling instrument
  - Heidemann-small

Individualization – Instruments

- Toothbrush
  - z. B. Ceramicus Größe 000 (Renfert) REF 17030000

- Brush
  - z. B. Ceramicus Größe 00 (Renfert) REF 17030000

- Abrasive wheel

- Polish
  - z. B. EVE R22

- Abrasive wheel

- Abrasive wheel

- Abrasive wheel

- Abrasive wheel

- Abrasive wheel

- Abrasive wheel

- Abrasive wheel
Individualization – Composite

- GrandioSO (VOCO)
- GrandioSO Heavy Flow (VOCO)
- GrandioSO Flow (VOCO)
- Amaris Farbe HT (VOCO) REF 1945
- FinalTouch (VOCO) REF 2321
- Celalux 3 VOCO REF 9090

Final Luting

- Ceramic Bond (VOCO) REF 1106 / 1107
- Single Tim (VOCO) REF 2247
- Pele Tim (VOCO) REF 2250 - 2255
- Futurabond U (VOCO) REF 1571 / 1572
- Bifix QM universal (VOCO) REF 1218
2.2. Incisor crown: Processing and luting

CAM restoration.

Separating the restoration with a slicer or another suited instrument from the pin.

Grinding / smoothening with a fine toothing carbide metal grinder. Watch for possible contact points.

Tip
Also possible with fine diamond burrs

It is the right time now to try in the restoration at the patient when the restoration is manufactured chairside in the dental clinic. Clean and disinfect the restoration with alcohol before try-in.

Conditioning of the luting face with airblasting (Al₂O₃, 50 µm, air pressure 1.5 - 2 bar).

Carefully removing of Al₂O₃ residue in ultrasonic cleaner with Ethanol (70 %) or steam cleaner. Dry the restoration with airstream.
Smoothening and pre-polishing with mid to fine grained diamond polishing system.

High-gloss polishing with extra-fine diamond polishing system.

A goat hair brush together with a diamond polish may be used alternatively.
Finalization with a cotton wobble.

Pierce the foil of a Ceramic Bond *SingleDose* with a Single Tim and wet it.

Apply Ceramic Bond allover the luting face and let it react for 60 sec.

Then dry it carefully with air.

**Note**
Disinfection of the restoration before try-in and final luting is mandatory.
Activate Futurabond U by pressing on the marked area, pierce the blister with a Single Tim and stir carefully.

Apply the adhesive homogeneously on to the prepared tooth surfaces and rub it in for 20 sec..

Dry off the adhesive layer with air in order to remove any solvents.

Light cure the adhesive layer for 10 sec..
Adhesive luting with Bifix QM
The material is automatically mixed in the mixing tip and can be applied directly onto the prepared contact areas.

Place the restoration and fix it with gentle pressure. The chemical curing of Bifix QM lasts 3 min. after placing the restoration.

Remove excess amounts of Bifix QM with a foam pellet or a disposable brush.

Dental floss is recommended for removing excess material from interdental spaces.

Note
Restorations made of Grandio blocs / disc must be luted adhesively!
Additional light curing of the dual-curing luting cement is possible.

High-esthetic result after luting.
2.3. Incisor crown: cut-back technique

Grandio blocs / disc may be individualized quick and easy for high esthetic demands.
GrandioSO Flow / Heavy Flow in combination with Final Touch allow a quick and simple light curing individualization of any restoration.

Perform the Cut-back-technique manually with carbide metal grinders or diamond coated burrs.

Alternatively the Cut-Back-Technique may be done already during the CAD step.

The area of the restoration where individualization is desired must be sandblasted (Al$_2$O$_3$, 50 µm, air pressure 1.5 - 2 bar) prior to the individualization steps.

Activate Futurabond U by pressing on the marked area, pierce the blister with a Single Tim and stir carefully.

Apply the adhesive homogeneously on to the prepared tooth surfaces and rub it in for 20 sec..

**Note**

Watch the given minimal wall thickness (page 20)

Mandatory cleaning (see page 6)

Wet the whole surface of the restoration not only single areas
Dry off the adhesive layer with air for at least 5 sec. in order to remove any solvents.

Light cure the adhesive layer for 10 sec..

Use GrandioSO Flow for incisal individualization.

Find more composites at the overview on page 5.

For incisal edges use transparent composites e.g. GrandioSO Incisal or Amaris HT.
To achieve mamelon-like structures very fine brushes may be helpful.

White spots can be simulated with Final Touch. Final touch must always be covered with a (transparent) final composite layer.

Fixation of different Flow-Composites respectively of different Flow layers by light curing in between.

More steps see case 1 „incisor crown“, step 2 - 21

Incisor crown individualized with GrandioSO and polished to high gloss finish.
Finalize the fissures with a Carbide metal burr or diamond burr. Clean the restoration afterwards.

Apply the adhesive over the entire surface after cleaning and rub it in for 20 sec..

Dry off the adhesive layer with air for at least 5 sec. in order to remove any solvents.

Light cure the adhesive layer for 10 sec..

2.4. Molar crown: individual characterization

Note
Wet the whole surface of the restoration not only single areas
Effect composite colours as FinalTouch may be used as they are just out of the syringe or mixed with other colours especially „white“ for the individualization of fissures, incisal edges and tooth necks. Colours should always be used very economical!

Apply Final Touch with a fine ceramic brush. Alternatively one may use fine endodontic instruments.

Light-polymerization of the applied colour (20 sec.).

Overlaying subsequently with a transparent flow composite e.g. Amaris HT.

Final polymerization (page 14) and polishing (pages page 7 and 8).
Grade of individualization
### 3. Questions and answers

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Which CAD / CAM systems can process Grandio blocs / disc?</strong></td>
<td>Please find the list of suitable systems on page 22 and <a href="http://www.voco.dental">www.voco.dental</a>. Please ask for not listed devices your CAD / CAM system provider.</td>
</tr>
<tr>
<td><strong>Which tools have to be used for milling Grandio blocs / disc?</strong></td>
<td>Grandio blocs / disc have to be machining with diamond coated tools.</td>
</tr>
<tr>
<td><strong>Is it possible to mill Grandio blocs / disc without water?</strong></td>
<td>Grandio blocs / disc can be milled dry or wet depending on the milling machine.</td>
</tr>
<tr>
<td><strong>How must restorations made from Grandio blocs / disc finally luted?</strong></td>
<td>The restorations must be luted exclusively adhesively. The proven procedure requires few steps only for reliable luting of the restoration.</td>
</tr>
<tr>
<td><strong>Is Bifix SE indicated for luting Grandio blocs / disc restorations?</strong></td>
<td>No, self-adhesive luting cements are not cleared for final luting. Grandio blocs / disc must be luted exclusively adhesively. The proven procedure requires few steps only for reliable luting of the restoration with the prepared tooth.</td>
</tr>
</tbody>
</table>
| **Which kind of tooth preparation should be choosen by the dentist?**   | In general the tooth preparation should follow the rules for full-ceramic restorations, means:  
  – rounding inner edges and borders  
  – shoulder preparation with rounded inner edges and borders respectively a chamfer preparation                                                                                                                                                                                                                          |
<p>| <strong>Must the restorations specially pretreated before luting?</strong>           | The restorations must be clean and greaseless. The luting face must be sandblasted (Al₂O₃, 50 µm, air pressure 1,5 - 2 bar ). Afterwards Al₂O₃ residue must be removed carefully and the restoration has to be washed with ethanol / isopropanol again. Dry the restoration carefully. Shortly before luting apply Silan covering on to the luting face and let it react for 60 sec. Afterwards blow the solvent for 5 s and lute in the restoration adhesively. |</p>
<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>How must the tooth hard substance conditioned before luting?</strong></td>
<td>Luting follows the rules of adhesive dentistry: A dental adhesive is applied on to the clean surface of the particular tooth, the solvent must be blown with a gentle air stream followed by the light-curing. If the adhesive is used correctly light-curing will not influence the fitting of the restoration.</td>
</tr>
<tr>
<td><strong>Why must individualizations of restorations made with composite tints covered with a composite layer?</strong></td>
<td>Most of the available composite tints only show a low resistance against abrasion and would disappear shortly when not covered with a suitable composite.</td>
</tr>
<tr>
<td><strong>What means „Cut-back“ and when will this technique be used?</strong></td>
<td>„Cut-back“ means a reduction of the restoration at the vestibular area before the individualization with light-curing composites. This technique is an easy and cost-effective technique for high esthetic restorations.</td>
</tr>
<tr>
<td><strong>What do I have to consider when trying in a restoration?</strong></td>
<td>The restoration must be clean, free of all grinding or blasting residue and disinfected with medical alcohol.</td>
</tr>
<tr>
<td><strong>How to disinfect Grandio blocs / disc prior to the luting?</strong></td>
<td>Medical alcohol is the appropriate disinfection agent. Wash the restoration with medical alcohol completely and dry it carefully with air before applying the silane.</td>
</tr>
<tr>
<td><strong>How to polish restorations made from Grandio blocs / disc?</strong></td>
<td>The polishing can be done extraorally as well as intraorally. For best results a two-step polishing system for highly-filled composites is recommended.</td>
</tr>
</tbody>
</table>
4. Indications

Crows, inlays, onlays, veneers

Implant-supported crowns

Minimum wall thickness for restorations

Inlay

Veneer

Onlay

Cement space: 70 μm (± 10 μm)

Crown

The use of Grandio materials makes it possible to mill even thinly tapering edges precisely and without the risk of chipping or breakages. This means precision-fit restorations that are also easy to polish inside the mouth or outside.
5. Shade selection

Use the VITA® shade system (e.g., GrandioSO shade guide) to determine the shade against the cleaned but unprepared tooth prior to anaesthesia and preferably in daylight conditions.

**Two grades of translucency for optimal aesthetics**

- **LT** – ideal for the anterior region in the shades A1, A2, A3, A3.5, B1, C2, BL
- **HT** – ideal for the posterior region in the shades A1, A2, A3, A3.5

11 shades ensure that your patient always receives the restoration which suits him or her best.

As a general rule of thumb, the choice of colour tone for the final result, i.e., the luted restorations, depends on a number of factors:

- Colour of the core
- Layer thickness of the restoration
- Colour and translucency of the restorative
- Colour of the luting material

Special shades or effects for composite blocks are easy to create using a flowable material. After milling, parts of the restoration are abraded with a grinding tool, then rebuilt by applying, for example, GrandioSO Flow in the adhesive technique.
## 6. Approved devices for processing of Grandio blocs / Grandio disc

### vhf camfacture

<table>
<thead>
<tr>
<th>Device model</th>
<th>Modus</th>
<th>Type of processing</th>
<th>Universal holder Grandio blocs</th>
<th>Universal holder Grandio disc</th>
<th>Software</th>
<th>Software update</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Impression S1/S2, R5, K5 and Z4</td>
</tr>
</tbody>
</table>

www.vhf.de

### Zirkonzahn

<table>
<thead>
<tr>
<th>Device model</th>
<th>Modus</th>
<th>Type of processing</th>
<th>Universal holder Grandio blocs</th>
<th>Universal holder Grandio disc</th>
<th>Software</th>
<th>Software update</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Milling Unit M (M1 - M5)</td>
</tr>
</tbody>
</table>

www.zirkonzahn.com

### imes-icore

<table>
<thead>
<tr>
<th>Device model</th>
<th>Modus</th>
<th>Type of processing</th>
<th>Universal holder Grandio blocs</th>
<th>Universal holder Grandio disc</th>
<th>Software</th>
<th>Software update</th>
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<tr>
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<td></td>
<td></td>
<td></td>
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<td>CORITEC-Serie</td>
</tr>
</tbody>
</table>

www.imes-icore.de

### roland DG

<table>
<thead>
<tr>
<th>Device model</th>
<th>Modus</th>
<th>Type of processing</th>
<th>Universal holder Grandio blocs</th>
<th>Universal holder Grandio disc</th>
<th>Software</th>
<th>Software update</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>DWX-series</td>
</tr>
</tbody>
</table>

www.rolandeasyshape.com

Subject to change without notice. Status: June 2018. Further information is available at www.voco.dental
7. Clinical cases

**Clinical case 1**

- Initial clinical situation
- Core preparation
  
- Final result
  
- Restoration directly after milling
- Finally prepared restorations

**Clinical case 2**

- Initial situation tooth 26
- Individualized crown on model
- Fixed crown
- Final result

**Clinical case 3**

- Initial situation tooth 16
- Occlusal view of the individualized overlay
- Buccal view

- Overlay on model
- Final result

Source: Dr. Felipe Moura, Brazil

Source: Alvaro Ferrando, Visiting professor master aesthetic dentistry and minimally invasive rehabilitation, University Valencia, Spain
**8. Scientific data**

**Strongest in their class**
The amount of the study results shown here demonstrates that the nano ceramic hybrid CAD / CAM material Grandio blocs / Grandio disc is stronger than the composite blocs currently available on the market.

An investigation of the fracture force of the materials shows that Grandio blocs / Grandio disc has a high value even with limited retention and reduced fit of the crown until it breaks.

**Fracture force (after TCML, 5 - 55 °C, 1,2 × 10⁶ cycles)**

Source: V. Preis, M. Behr, S. Schneider-Feyer, M. Rosentritt, J Dent Res Spec Iss 97 B: 3329, 2018

Brilliant Crios, Cerasmart and Shofu Block HC are not registered trademarks of VOCO GmbH.
**Extraordinary strength**

In a Tübingen University study, Grandio blocs achieved a biaxial flexural strength result of 333 MPa, while its compressive strength was measured (in-house) at 530 MPa. These results were far superior to other tested products.

With this extraordinary strength and the highest filler content, at 86 % by weight, Grandio blocs is a guarantee for durable restorations.

---

**Biaxial flexural strength**

![Graph showing biaxial flexural strength comparison](source.png)

Similar to natural tooth substance
The modulus of elasticity is a measure of the resistance that a material exerts against its deformation. In the best case scenario, it should be the same as that of natural tooth substance. Grandio blocs also achieves this with ease, and thus offers not only extremely high strength, but also the similarity to natural tooth substance desired by practitioners.

Modulus of elasticity

![Graph showing modulus of elasticity for various materials](image)


Ambarino High Class, Cerasmart, Coltene Brilliant Crios, VITA Enamic, IPS e.max CAD and Lava Ultimate are not registered trademarks of VOCO GmbH.
Antagonist-friendly
The two-body wear test shows that Grandio blocs demonstrates similarly low abrasion to lithium disilicate and, in addition, is antagonist-friendly.

Compared to other CAD / CAM materials Grandio blocs has an extremely low water absorption, which stands for a higher quality of the restoration and as well for an increased longevity.

**Water absorption**

![Water absorption graph](image)

Source: as per ISO 4049, VOCO, 2017
Like most materials, composites expand when heated and contract when they cool again. This behaviour is also true of human teeth. Teeth and restoratives expand when we consume hot food and drinks.

If the expansion of the restoration (crown) is greater than that of the tooth itself, a tensile force develops at the adhesive bond. The study conducted by Wolter et al. revealed that Grandio blocs comes close to the values recorded for natural tooth substance (cf. Xu et al., 1989).

### Coefficient of thermal expansion

![Coefficient of thermal expansion graph]

Source: H. Wolter et al., Fraunhofer ISC Würzburg, report to VOCO, 2016

Ambarino High Class, Cerasmart, VITA Enamic and Lava Ultimate are not registered trademarks of VOCO GmbH.
## 9. Technical data / dimensions

### Grandio® blocs / disc

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biaxial flexural strength</td>
<td>333 MPa</td>
<td>University of Tübingen</td>
</tr>
<tr>
<td>Vickers hardness [HV]</td>
<td>154.6</td>
<td>University of Tübingen</td>
</tr>
<tr>
<td>Two-body wear (specimen)</td>
<td>59.9 µm</td>
<td>University of Tübingen</td>
</tr>
<tr>
<td>Two-body wear (antagonist)</td>
<td>98.1 µm</td>
<td>University of Tübingen</td>
</tr>
<tr>
<td>Filler content</td>
<td>86 % w/w</td>
<td>DIN 51081</td>
</tr>
<tr>
<td>Coefficient of thermal expansion</td>
<td>16.0·10⁻⁶K⁻¹</td>
<td>ISC Würzburg</td>
</tr>
<tr>
<td>Compressive strength</td>
<td>530 MPa</td>
<td>As per ISO 9917</td>
</tr>
<tr>
<td>Modulus of elasticity</td>
<td>18.28 GPa</td>
<td></td>
</tr>
<tr>
<td>Water absorption</td>
<td>13.6 µg/mm³</td>
<td>As per ISO 4049</td>
</tr>
<tr>
<td>Water solubility</td>
<td>&lt; 0.1 µg/mm³</td>
<td>As per ISO 4049</td>
</tr>
<tr>
<td>Radiopacity</td>
<td>308 %Al</td>
<td>As per ISO 4049</td>
</tr>
</tbody>
</table>

### Grandio® blocs is available in two sizes

12 – for small restorations such as inlays

10.5 mm  12.5 mm  16 mm

10.4 mm  12.4 mm

14L – for larger restorations such as crowns

14.8 mm  18 mm

14.5 mm  14.5 mm

### Grandio® disc

98.4 mm  94 mm

10 mm  15 mm
10. Presentation Grandio® blocs / Grandio® disc

Presentation Grandio® blocs

REF 6000  Set blocks
2 x No. 12 (A2 LT, A3 HT), 3 x No. 14L (A3 LT, A3 HT, A3.5 LT), Bifix QM QuickMix syringe 10 g universal, Futurabond U 
SingleDose 5 pcs., Ceramic Bond bottle 
5 ml, Dimanto set, accessories

<table>
<thead>
<tr>
<th>Low translucent (LT)</th>
<th>5 x No. 12</th>
<th>5 x No. 14L</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 LT</td>
<td>REF 6003</td>
<td>REF 6018</td>
</tr>
<tr>
<td>A2 LT</td>
<td>REF 6004</td>
<td>REF 6019</td>
</tr>
<tr>
<td>A3 LT</td>
<td>REF 6005</td>
<td>REF 6020</td>
</tr>
<tr>
<td>A3.5 LT</td>
<td>REF 6006</td>
<td>REF 6021</td>
</tr>
<tr>
<td>B1 LT</td>
<td>REF 6007</td>
<td>REF 6022</td>
</tr>
<tr>
<td>C2 LT</td>
<td>REF 6008</td>
<td>REF 6023</td>
</tr>
<tr>
<td>BL LT</td>
<td>REF 6009</td>
<td>REF 6024</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>High translucent (HT)</th>
<th>5 x No. 12</th>
<th>5 x No. 14L</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 HT</td>
<td>REF 6012</td>
<td>REF 6027</td>
</tr>
<tr>
<td>A2 HT</td>
<td>REF 6013</td>
<td>REF 6028</td>
</tr>
<tr>
<td>A3 HT</td>
<td>REF 6014</td>
<td>REF 6029</td>
</tr>
<tr>
<td>A3.5 HT</td>
<td>REF 6015</td>
<td>REF 6030</td>
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<table>
<thead>
<tr>
<th>Shade</th>
<th>5 x No. 12</th>
<th>5 x No. 14L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixed*</td>
<td>REF 6033</td>
<td>REF 6034</td>
</tr>
</tbody>
</table>

*(A1 LT, B1 LT, C2 LT, BL LT, A1 HT)

Presentation Grandio® disc

<table>
<thead>
<tr>
<th>Low translucent (LT)</th>
<th>1 x 15 mm, ø 98.4 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 LT</td>
<td>REF 6050</td>
</tr>
<tr>
<td>A2 LT</td>
<td>REF 6051</td>
</tr>
<tr>
<td>A3 LT</td>
<td>REF 6052</td>
</tr>
<tr>
<td>A3.5 LT</td>
<td>REF 6053</td>
</tr>
<tr>
<td>B1 LT</td>
<td>REF 6054</td>
</tr>
<tr>
<td>C2 LT</td>
<td>REF 6055</td>
</tr>
<tr>
<td>BL LT</td>
<td>REF 6056</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>High translucent (HT)</th>
<th>1 x 15 mm, ø 98.4 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 HT</td>
<td>REF 6057</td>
</tr>
<tr>
<td>A2 HT</td>
<td>REF 6058</td>
</tr>
<tr>
<td>A3 HT</td>
<td>REF 6059</td>
</tr>
<tr>
<td>A3.5 HT</td>
<td>REF 6060</td>
</tr>
</tbody>
</table>

Should you have any further questions on the CAD / CAM materials, please do not hesitate to contact your local VOCO dental consultant or our customer service department on Freecall: 00 800 44 444 555